



PRELIMINARY ASSESSMENT DATA AND SITE CHARACTERISTICS FORM				IDENTIFICATION			
				State: NJ		CERCLIS Number: NJD986610848	
				CERCLIS Discovery Date: 09/91			
1. General Site Information							
Name: CELANESE CORPORATION OF AMERICA				Street Address: ST. CHARLES STREET			
City: NEWARK		State: NJ	Zip Code: 07101	County: ESSEX		Cong. Dist: 10	
Latitude: 40° 43' 35.0"		Longitude: 74° 8' 35.0"	Approx. Area of Site: 11 acres		Status of Site: Inactive		
2. Owner/Operator Information							
Owner: CITY OF NEWARK				Operator: CITY OF NEWARK			
Street Address: BROAD STREET				Street Address: BROAD STREET			
City: NEWARK				City: NEWARK			
State: NJ	Zip Code: 07101	Telephone: 201-733-7994		State: NJ	Zip Code: 01710	Telephone: 201-733-7994	
Type of Ownership: Municipal				How initially identified: Incidental			

PRELIMINARY ASSESSMENT
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3. Site Evaluator Information

Name of Evaluator:
DAVID E. TRIGGS

Date Prepared:
06/06/91

Agency / Organization:
NJDEPE/DRPSR/BSA

EPA or State Agency Contact:
KENNETH J. KLOO

Street Address:
300 HORIZON CENTER

City:
ROBBINSVILLE

State:
NJ

Telephone:
609-584-4280

Emergency Removal Recommendation:
No
Date:

Recommendation:
Low Priority SI
Date:

Signature:
Name:
DAVID E. TRIGGS
Position:
SENIOR ENV. SPECIALIST

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4. General Site Characteristics			
Predominate Land Uses within 1 mile of Site: Industrial Commercial Residential	Site Setting: Urban	Years of Operation: Beginning Year: 1873 Ending Year: 1960 Unknown	
Type of Site Operations: Manufacturing Industrial Organic Chemicals Other Manufacturing RCRA Treatment, Storage, or Disposal Large Quantity Generator		Waste Generated: Onsite	
		Waste Deposition Authorized by Former Owner	
		Waste Accessible to Public No	
		Distance to Nearest Dwelling, School, or Workplace: 100 Feet	
5. Waste Characteristics Information			
Source Type: Quantity units Contaminated soil 2.500e+03 cu yds		General Types of Waste: Organics Inorganics Solvents Acids/Bases	
		Physical State of Waste Deposited Solid Liquid	

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6. Ground Water Pathway			
Is Ground Water Used for Drinking Water Within 4 Miles: No	Is There a Suspected Release to Ground Water: Yes	List Secondary Target Population Served by Ground Water Withdrawn From: 0 - 1/4 Mile 0 >1/4 - 1/2 Mile 0 >1/2 - 1 Miles 0 >1 - 2 Miles 0 >2 - 3 Miles 0 >3 - 4 Miles 0 Total 0	
Type of Ground Water Wells Within 4 Miles: None	Have Primary Target Wells Been Identified: No		
Depth to Shallowest Aquifer: 100 Feet	Nearest Designated Wellhead Protection Area: None within 4 Miles		
Karst Terrain/Aquifer Present: No			

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7. Surface Water Pathway Page 1

Type of Surface Water Draining
Site and 15 Miles Downstream:

Shortest Overland Distance from any
Source to Surface Water:

10000 Feet
1.9 Miles

Is there a Suspected Release to
Surface Water: No

Site is Located in:
> 500 yr floodplain

7. Surface Water Pathway Page 2

Drinking Water Intakes along the Surface Water Migration Path: No

Have Primary Target Drinking Water Inlets been Identified: No

Secondary Target Drinking Water Intakes:
None

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7. Surface Water Pathway Page 3

Fisheries Located along the Surface Water Migration Path: No

Have Primary Target Fisheries Been Identified: No

Secondary Target Fisheries:
None

7. Surface Water Pathway Page 4

Wetlands Located along the Surface Water Migration Path: No

Have Primary Target Wetlands Been Identified: No

Secondary Target Wetlands:
None

Other Sensitive Environments along the Surface Water Migration Path: No

Have Primary Target Sensitive Environments Been Identified: No

Secondary Target Sensitive Environments:
None

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8. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Day Care on or within 200 feet of the Site: No

Number of Workers Onsite: None

Have Terrestrial Sensitive Environments Been Identified on or within 200 feet of the site: No

Terrestrial Sensitive Environments:

9. Air Pathway

Total Population on/within:	
Onsite	0
0 - 1/4 Mile	2609
>1/4 - 1/2 Mile	6418
>1/2 - 1 Mile	18173
>1 - 2 Miles	41386
>2 - 3 Miles	123801
>3 - 4 Miles	298594
Total	490981

Is there a Suspected Release to Air: Yes

Are there Wetlands within 4 Miles of the Site: No

Are there Other Sensitive Environments within 4 miles of the Site: No

Sensitive Environments within 1/2 Mile of the Site:
None

WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 CHEMICAL MANUFACTURE Contaminated soil
Volume 2.50E+03 cu yds

WQ value maximum
1.00E+00 1.00E+00

Waste Characteristics Score: WC = 18

Ground Water Pathway Criteria List
 Suspected Release

Are sources poorly contained? (y/n/u)	N
Is the source likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	Y
Is the waste quantity particularly large? (y/n/u)	U
Is precipitation heavy and filtration rate high? (y/n/u)	Y
Is the site located in an area of karst terrain? (y/n)	N
Is the substance highly permeable or conductive? (y/n/u)	N
Is drinking water drawn from a shallow aquifer? (y/n/u)	N
Are suspected contaminants highly mobile in ground water? (y/n/u)	N
Does any circumstantial evidence of ground water or drinking water contamination exist? (y/n/u)	Y

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for a Suspected Release:

GROUNDWATER CONTAMINATION HAS BEEN CONFIRMED THROUGH SAMPLING.

Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)	N
Is any nearby drinking water well closed? (y/n/u)	U
Has foul-tasting or foul-smelling water been reported by any nearby drinking water well users? (y/n/u)	U
Do any nearby wells have a large drawdown/high production rate? (y/n/u)	N
Are drinking water wells located between the site and other wells that are suspected to be exposed to hazardous substances? (y/n/u)	N
Does any circumstantial evidence of ground water or drinking water contamination exist? (y/n/u)	Y
Does any drinking water well warrant sampling? (y/n/u)	N
Other criteria? (y/n)	N

PRIMARY TARGET(S) IDENTIFIED? (y/n) N

Summarize the rationale for identifying Primary Targets:

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GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

Pathway Characteristics			Ref.
Do you suspect a release? (y/n):	Yes		
Is the site located on a karst terrain? (y/n):	No		
Depth of Aquifer (feet):	100		
Distance to the nearest drinking water well (feet):	6000		

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	0	0	
5. NEAREST WELL	0	0	
6. WELLHEAD PROTECTION AREA(WHPA) None within 4 miles	0	0	
7. RESOURCES	5	0	
T =	5	0	

Waste Characteristics

WC =

18	0
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Ground Water Pathway Score:

1

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Ground Water Target Populations

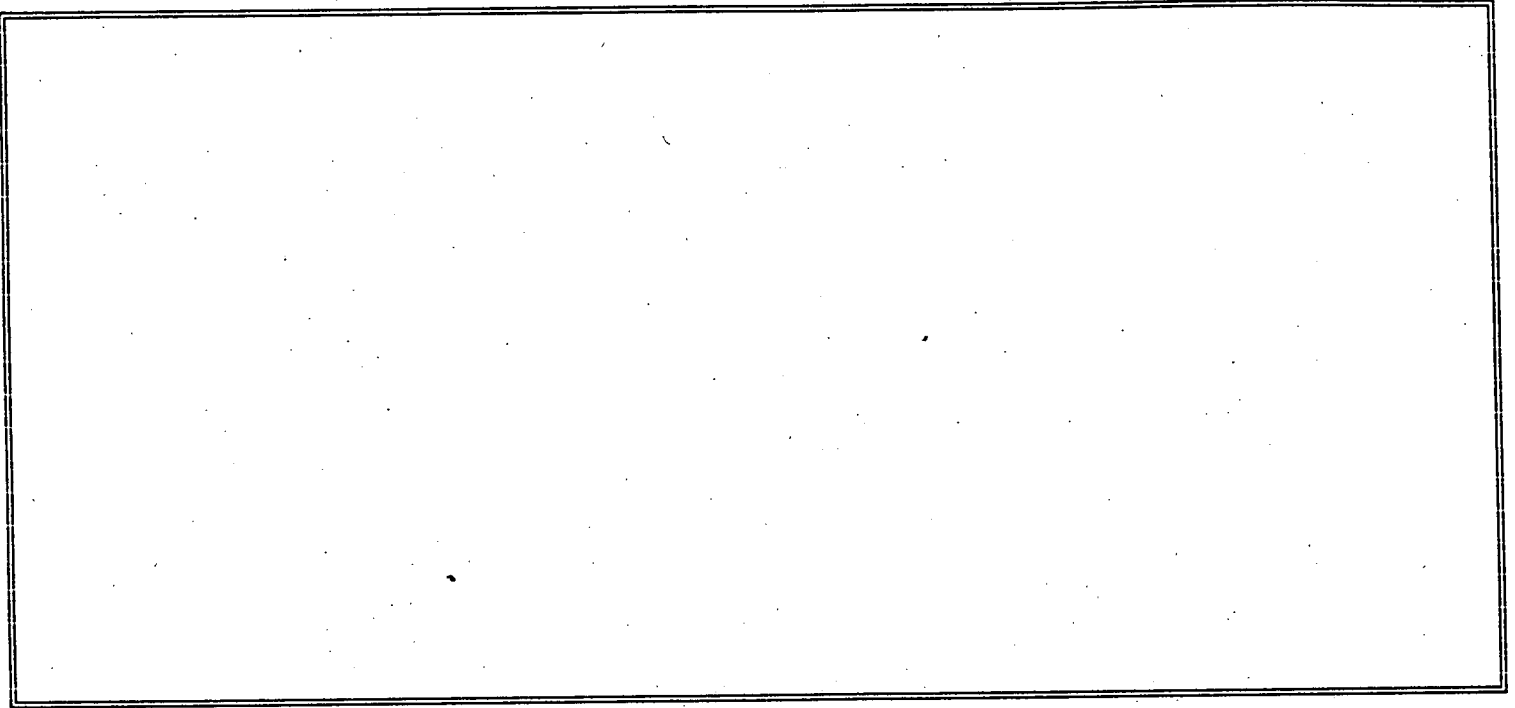
Primary Target Population Drinking-Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				
Total				

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	0		0
Greater than 1/2 to 1 mile	0		0
Greater than 1 to 2 miles	0		0
Greater than 2 to 3 miles	0		0
Greater than 3 to 4 miles	0		0
Total			0

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Apportionment Documentation for a Blended System



Surface Water Pathway Criteria List
Suspected Release

Is surface water nearby? (y/n/u)	N
Is waste quantity particularly large? (y/n/u)	N
Is drainage area large? (y/n/u)	Y
Is precipitation heavy or infiltration rate low? (y/n/u)	Y
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	Y
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	N
Is vegetation stressed along probable runoff path? (y/n/u)	N
Are suspected contaminants highly persistent in surface water? (y/n/u)	N
Are sediments/water unnaturally discolored? (y/n/u)	N
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	N
Is ground water discharge to surface water likely? (y/n/u)	N
Is there any circumstantial evidence of surf.water contamination?(y/n/u)	N

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for a Suspected Release:

Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u)	If yes:	N
N Drinking water intake		
N Fishery		
N Sensitive environment		
Has an intake, fishery, or recreational area been closed? (y/n/u)		Y
Is there any circumstantial evidence of surface water contamination at or downstream of target? (y/n/u)		Y
Does any target warrant sampling? (y/n/u)	If yes:	N
N Drinking water intake		
N Fishery		
N Sensitive environment		

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for identifying Primary Intake(s):

continued -----

continued -----

PRIMARY FISHERY IDENTIFIED? (y/n)

N

Summarize the rationale for identifying Primary Fishery(ies):

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n)

N

Summarize the rationale for identifying Primary Sensitive Environment(s):

SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n):	No	
Distance to the surface water (feet):	10000	
Flood Frequency (years):	>500	
What is downstream distance (miles) to:		
a. the nearest drinking water intake?	16.0	
b. the nearest fishery?	2.5	
c. the nearest sensitive environment?	2.5	

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		100	
LR =	0	100	

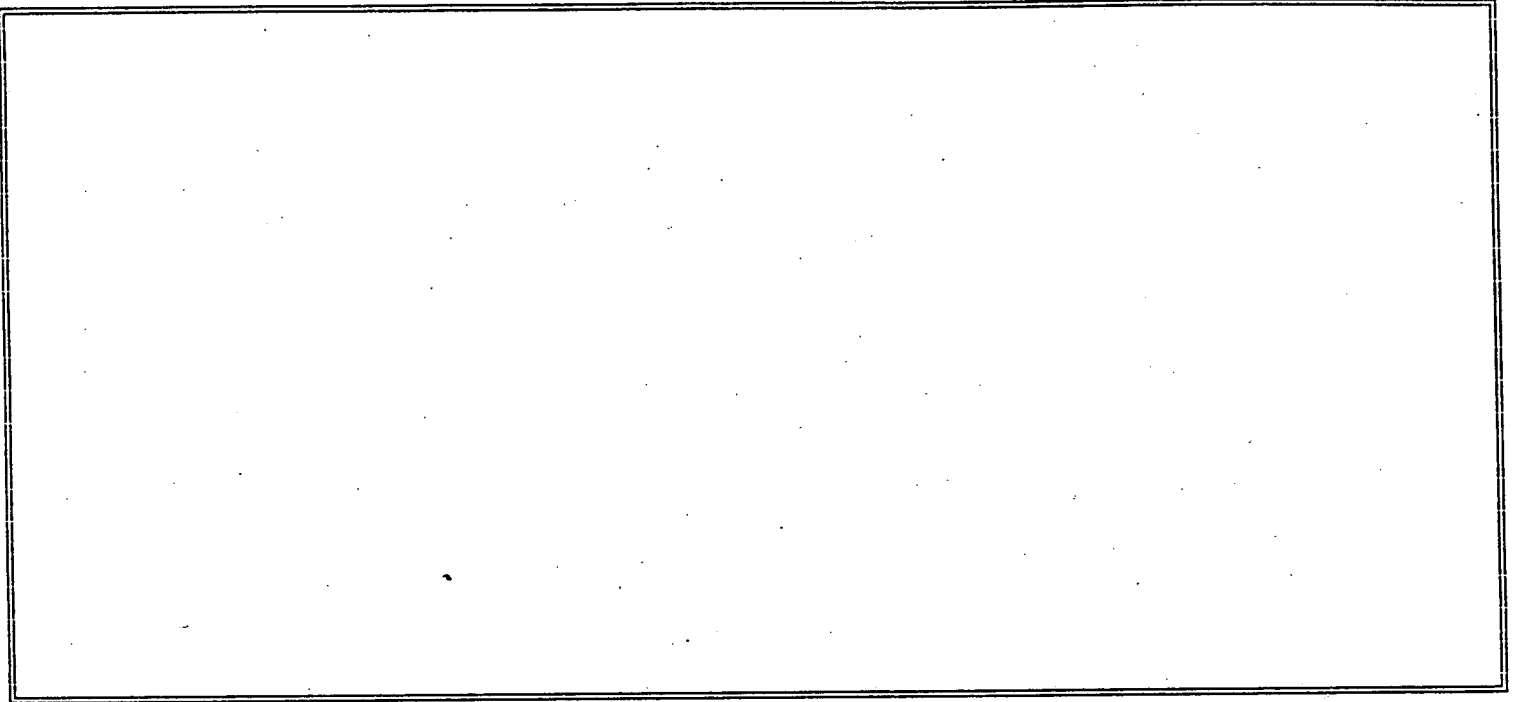
Drinking Water Threat Targets

TARGETS (within 15 mi distance)	Suspected Release	No Suspected Release	References
3. Determine the water body type flows (if applicable), and number of people served by all drinking-water intakes.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	0	5	
T =	0	5	

Drinking Water Intake Target Population

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
None					
Primary Target Population Total					0
Secondary Target Population Total					0

Apportionment Documentation for a Blended System



Human Food Chain Threat Targets

TARGETS (within 15 mi distance)	Suspected Release	No Suspected Release	References
8. Determine the water body types and flows for all fisheries within the target limit			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	0	0	
T =	0	0	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref	Value
None				
Primary Fisheries Total				0
Secondary Fisheries Total				0

Environmental Threat Targets

TARGETS (within 15 mi distance)	Suspected Release	No Suspected Release	References
11. Determine the water body types and flows (if applicable) for all sensitive environments.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECOND. SENSITIVE ENVIRONMENTS	0	0	
T =	0	0	

Environment Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
None				
Primary Sensitive Environments Total				0
Secondary Sensitive Environments Total				0

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Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Target (T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	100	5.00E+00	18	0
Human Food Chain	100	0.00E+00	18	0
Environmental	100	0.00E+00	18	0

Surface Water Pathway Score:

0

Soil Exposure Pathway Criteria List
Resident Population

Are there residences, schools, or day care facilities on or within 200 feet of areas of suspected contamination? (y/n/u)	Y
Are residences, schools, or day care facilities located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	N
Is there an overland migration route that might spread hazardous substances near residences, schools, or day care facilities? (y/n/u)	Y
Are there any reports of adverse health effects from onsite or adjacent residences or students, exclusive of apparent drinking water or air contamination problems? (y/n/u)	U
Does any offsite property warrant sampling? (y/n/u)	N
Other criteria? (y/n)	N

RESIDENT POPULATION IDENTIFIED? (y/n) N

Summarize the rationale for identifying Resident Population:

SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics

	Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n) No	
Do any people attend school or day care on or within 200 ft of areas of suspected contamination? (y/n) No	
Is the facility active? (y/n): No	

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 0 resident(s) 0 school/day care students	0	
3. RESIDENT INDIVIDUAL	0	
4. WORKERS None nearby	0	
5. TERRES. SENSITIVE ENVIRONMENTS	0	
6. RESOURCES	5	
T =	5	

Waste Characteristics

WC =

18

Resident Population Threat Score:

1

Nearby Population Threat Score:

2

Population within 1 Mile: 10,001 - 50,000

Soil Exposure Pathway Score:

3

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Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		
Total Terrestrial Sensitive Environments Value		

Air Pathway Criteria List
Suspected Release

Have odors been reported? (y/n/u) Y

Has a release of hazardous substances to the air
been directly observed? (y/n/u) N

Are there any reports of adverse health effects (e.g., headaches,
nausea, dizziness) potentially resulting from migration of
hazardous substances through the air? (y/n/u) U

Is there any circumstantial evidence of air release? (y/n/u) Y

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for a Suspected Release:

PHENOLIC ODORS HAVE FREQUENTLY BEEN REPORTED FROM OPEN HOLES
RESULTING FROM EXCAVATION, MONITORING WELLS ON-SITE AND THE
BASEMENTS OF HOMES SITUATED ALONG ST. CHARLES STREET.

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AIR PATHWAY SCORESHEETS

Pathway Characteristics

Do you suspect a release? (y/n):			Yes	Ref.
Distance to the nearest individual (feet):			200	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References	
1. SUSPECTED RELEASE	550			
2. NO SUSPECTED RELEASE		0		
LR =	550	0		

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 2609 person(s)	26090		
4. SECONDARY TARGET POPULATION	142	0	
5. NEAREST INDIVIDUAL	50	0	
6. PRI. SENSITIVE ENVIRONMENTS	0		
7. SEC. SENSITIVE ENVIRONMENTS	0	0	
8. RESOURCES	5	0	
T =	26287	0	

Waste Characteristics

WC =

32	0
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Air Pathway Score:

100

Air Pathway Secondary Target Populations

Distance from Nearest Source	Population	References	Value
Onsite	N.A.		0
Greater than 0 to 1/4 mile	N.A.		0
Greater than 1/4 to 1/2 mile	6418		28
Greater than 1/2 to 1 mile	18173		26
Greater than 1 to 2 miles	41386		27
Greater than 2 to 3 miles	123801		38
Greater than 3 to 4 miles	298594		23
Total Secondary Population Value			142

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		
Total Primary Sensitive Environments Value		

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
None			
Total Secondary Sensitive Environments Value			

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SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	1
SURFACE WATER PATHWAY SCORE:	0
SOIL EXPOSURE PATHWAY SCORE:	3
AIR PATHWAY SCORE:	100
SITE SCORE:	50

RECOMMENDATION

RECOMMEND ADDITIONAL SAMPLING TO FURTHER
ESTABLISH THE EXTENT OF CONTAMINATION IN
SOIL AND GROUNDWATER.

SUMMARY

1. Is there a high possibility of a threat to nearby drinking water wells by migration of hazardous substances in ground water? No

If yes, identify the wells recommended for sampling during the SI

If yes, how many people are served by these threatened wells? 0

2. Are any of the following suspected to have been exposed to hazardous substances through surface water migration from the site?

- A. Drinking water intakes No
B. Fishery No
C. Sensitive environment: wetland, critical habitat, others No

If yes, identity the targets recommended for sampling during the SI

3. Do people reside or attend school or day care on or within 200 ft of any area of suspected contamination? No

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

If yes, explain:

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